



**16\*GE Copper Unmanaged Industrial Ethernet Switch**  
**Size: 148\*51\*165 mm, DIN Rail-mounted**

### Overview

MES-316 is an unmanaged Industrial Ethernet Switch, that supports 16 Gigabit Copper ports. It also supports Ethernet Layer 2 protocols required for industrial field applications to ensure the stability of communication networks. This series of switches features low power consumption and a fanless design, ensuring noise-free operation. They are designed to operate in a wide temperature range from -25°C to +75°C and exhibit excellent electromagnetic compatibility (EMC) performance. This ensures that they can operate reliably in harsh industrial environments. These switches provide a secure and reliable solution for building fast and stable network terminal access networks in various industrial applications such as new energy, industrial automation, intelligent transportation, video surveillance, and more.

### Features

- ◇ Using high quality integrated module to provide good electrical characteristics
- ◇ Reliable data transmission and long life span
- ◇ Support for full-duplex or half-duplex mode, with automatic negotiation capability
- ◇ The network port supports fully automatic cross identification
- ◇ Internal storage and forwarding mechanism, support multiple protocols
- ◇ In line with the industrial-grade operating standards, MTBF in more than 300,000 hours
- ◇ Working power supply: DC12~52V, dual power redundancy, providing reverse polarity protection, short circuit protection, over voltage protection
- ◇ Wide operating temperature: -25~+75°C

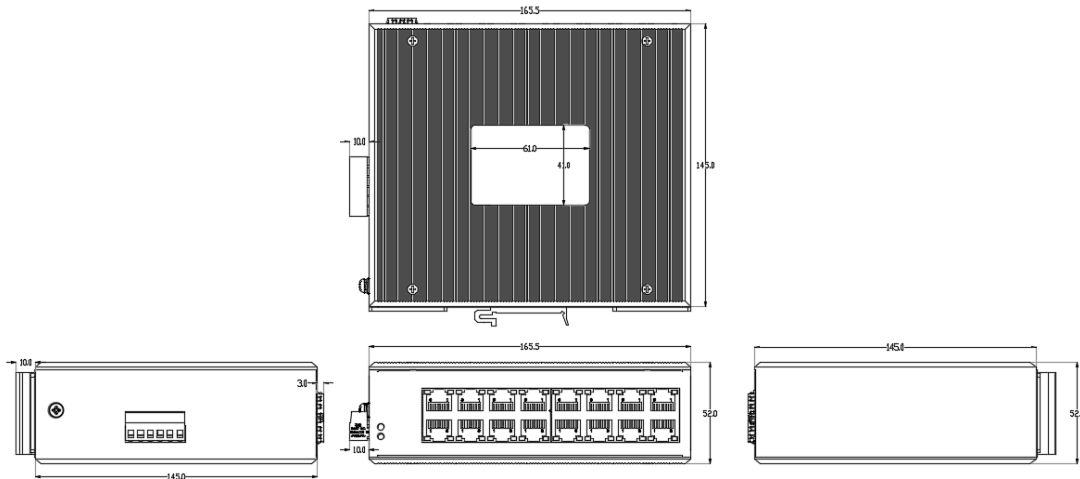
### Specifications

Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE 802.3z, IEEE 802.3x
Business Ports	Copper ports: 16* 10/100Base-T/1000Base-TX(2 groups of 2*4 10/100/1000M RJ45), self adaptive RJ45 ports, full/half duplex mode, Auto MDI/ MDI-X connection Power Ports: supports DC dual power, dual power redundancy(6-contact 5.08mm spacing terminal block)
Transmission Distance	Twisted pair: 10BASE-T: Cat3, 4, 5 UTP cables(≤250 m) 100/1000BASE-T(X): Cat5 or later UTP cables(≤100 m)
Switch Property	Backplane bandwidth: 52G(no blocking) Processing type: store and forward(full wire speed) Throughput: 38.688Mpps Jumbo frames: support 10KBytes MAC table size: 8k Buffer: 4.1Mbit data frames
LED Indicators	Power indicator: PWR(green light), Copper indicators for ports as follows: Gigabit copper ports, Yellow light on is in Link/Act status, yellow light off is in link-down status. Yellow light on & blinking is in link-up, sending and receiving data. Green light on is for 1000M, green light off is for 10M or 100M.
Lightning Protection	Ethernet ports: common mode 6KV/differential mode 2KV Power ports: common mode 6KV/differential mode 4KV
Anti static electricity	Contact: 4KV, air: 8KV
Industrial Standards	EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: IEC 61000-4-2 (ESD), Level 4 IEC 61000-4-3 (RFS), Level 3 IEC 61000-4-4 (EFT), Level 4 IEC 61000-4-5 (Surge), Level 4 IEC 61000-4-6 (CS), Level 3 IEC 61000-4-8 Shock: IEC 60068-2-27 Free Fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Power Supply	Accessing terminal: 6-contact 5.08mm spacing terminal block Input voltage: DC12~52V Standby power: < 1W ; full load system power: < 65W Supports dual power redundancy
Working Environment	Operating temperature: -25~+75°C Storage temperature:-40~85°C Operating humidity: 5%~95%(non condensing)

Mechanical Features	Shell: aluminum IP rating: IP40 Installation methods: DIN-rail mounting or wall mounting Weight: 0.6kg Size: 148mm*51mm*165mm
Warranty Period	3 years

### Outlook and Dimension

Size: 148mm(L)\*51mm(W)\*165mm(H)



### Ordering Information

Model	Description
<b>MES-316</b>	16*10/100/1000M RJ45 copper ports Unmanaged industrial type 16-port Gigabit unmanaged industrial Ethernet switch Input voltage: DC12~52V Operating temperature: -25°C~+75°C Aluminum shell; Size: 148mm*51mm*165mm Protection level: IP40 DIN-rail mounting or wall mounting